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10/520,176	01/24/2005	Yuuichi Murayama	101551.55779US	7682	
23911 7590 10/12/2007 CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			EXAMINER		
			JAVANMARD, SAHAR		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	n No.	Applicant(s)	
O55: 4	10/520,17	6	MURAYAMA ET AL.		
Office Action Summary		Examiner		Art Unit	
			VANMARD	1609	
The MAILING I	DATE of this communication	appears on the	cover sheet with the c	orrespondence add	dress
WHICHEVER IS LON - Extensions of time may be a after SIX (6) MONTHS from - If NO period for reply is spe - Failure to reply within the se	TUTORY PERIOD FOR REI IGER, FROM THE MAILING available under the provisions of 37 CFR the mailing date of this communication. cified above, the maximum statutory per t or extended period for reply will, by sta ffice later than three months after the ma ent. See 37 CFR 1.704(b).	B DATE OF TH R 1.136(a). In no ever riod will apply and will atute, cause the appl	IIS COMMUNICATION int, however, may a reply be tim I expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).	
Status					•
2a) ☐ This action is F 3) ☐ Since this appli	communication(s) filed on <u>05</u> INAL. 2b) To cation is in condition for allow dance with the practice under	his action is now wance except	- on-final. for formal matters, pro		merits is
Disposition of Claims				•	
4a) Of the above 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-9 an</u> 7) ☐ Claim(s) 8) ☐ Claim(s) Application Papers	<u>d 13-19</u> is/are rejected.	drawn from cor			
10)⊠ The drawing(s) f Applicant may no Replacement dra	iled on <u>05 January 2005</u> is/a t request that any objection to t wing sheet(s) including the corr aration is objected to by the	are: a)⊠ acce the drawing(s) b rection is require	e held in abeyance. See ed if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFI	R 1.121(d).
Priority under 35 U.S.C.	§ 119			•	
a) All b) Sor  1. Certified  2. Certified  3. Copies of  application	t is made of a claim for foreing * c) None of: copies of the priority docume copies of the priority docume the certified copies of the p in from the International Burd detailed Office action for a l	ents have beer ents have beer riority docume eau (PCT Rule	n received. n received in Application nts have been receive e 17.2(a)).	on No In this National S	Stage
Attachment(s)  1) Notice of References Cite 2) Notice of Draftsperson's I 3) Information Disclosure St Paper No(s)/Mail Date 05	Patent Drawing Review (PTO-948) atement(s) (PTO/SB/08)		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	

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#### **DETAILED ACTION**

The Office Action is in response to the 371 of PCT/JP02/08209 filed January 5, 2005. Amended claims 1-9 and 13-19 are being examined on the merits herein.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13-19 are rejected under 35 U.S.C. 112, first paragraph, for scope of enablement because the specification, while being enabling for the treatment of suppressing the proliferation of abnormal prion proteins, does not reasonably provide enablement for the prevention of suppressing the proliferation of abnormal prion proteins as recited in these claims.

The instant claims are drawn to a suppressive agent and a method for the <u>prevention</u> of suppressing the proliferation of abnormal prion proteins. The instant specification fails to provide information that would allow the skilled artisan to practice the instant invention. Attention is directed to *In re Wands*, 8 USPQ2d 1400 (CAFC 1988) at 1404 where the court set forth the eight factors to consider when assessing if a disclosure would have required undue experimentation. Citing *Ex parte Forman*, 230 USPQ 546 (BdApls 1986) at 547 the court recited eight factors:

(1) the nature of the invention; (2) the state of the prior art; (3) the relative skill of those in the art; (4) the predictability or unpredictability of the art; (5) the breadth of the claims;

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(6) the amount of direction or guidance presented; (7) the presence or absence of working examples; and (8) the quantity of experimentation necessary.

## Nature of the invention:

The instant invention pertains to a method for the <u>prevention</u> of suppressing the proliferation of abnormal prion proteins.

#### The state of the prior art:

The skilled artisan would view that the prevention of prion diseases by suppressing the proliferation of abnormal prion proteins totally, absolutely, or permanently, is highly unlikely, since one cannot guarantee that suppressing the proliferation of abnormal prion proteins will always be prevented.

## The relative skill of those in the art:

The relative skill of those in the art is very high.

## The predictability or lack thereof in the art:

The skilled artisan would view that the prevention of prion diseases by suppressing the proliferation of abnormal prion proteins, totally, absolutely, or permanently is highly unpredictable.

The amount of direction or guidance presented and the presence or absence of working examples:

In the instant case, no working examples are presented in the specification as filed showing how to prevent prion diseases by suppressing the proliferation of abnormal prion proteins totally, absolutely, or permanently. Note that lack of a working example, is a critical factor to be considered, especially in a case involving an unpredictable and undeveloped art. See MPEP 2164.

Genentech, Inc. v. Novo Nordisk, 108 F.3d at 1366, states that "a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and "[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

Therefore, in view of the *Wands* factors, e.g., the amount of direction or guidance provided, absence of working examples, and the predictability of the art discussed above, to practice the claimed invention herein, a person of skill in the art would have to engage in <u>undue experimentation</u> to test the combination in the instant claims whether preventing prion diseases by suppressing the proliferation of abnormal prion proteins totally, absolutely, or permanently.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 13-15 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Richardson et al. (WO 96/21437).

Richardson teaches a method of remitting or attenuating the symptoms of abnormal movement disorders by administering a meal enriched with large neutral amino acids to patients suffering from these disorders (abstract, page 1, lines 1-3).

Richardson teaches a number of neurological disorders that are manifested by abnormal movements, including among many diseases, Creutzfeldt-Jacob disease (page 2, lines 22-33). Richardson further teaches that branched chain amino acids or aromatic acids are administered to alleviate abnormal movement disorders in particular isoleucine, leucine, and valine (page 10, lines 13-21; page 25, example 2; claims). Additionally, Richardson teaches that the branched amino acids can be administered in the form of various pharmaceutical preparations such as tablets, capsules, flavored bars, suspensions, and emulsions (page 41, lines 11-15), meeting the limitations of claims 1-9, 13-15, and 18.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 and 13-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson in view of Gordon (WO 00/64420).

Richardson is discussed above.

Richardson does not teach neurodegenerative diseases such as scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome.

Gordon teaches that neurodegenerative disease Creutzfeldt-Jakob disease is characterized by the appearance and accumulation of a protein-resistant form of a prion protein in the central nervous system (page 1, lines 25-30) in addition to other neurodegenerative diseases including scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome (page 23, lines 10-12).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have administered a meal enriched with large neutral amino acids to patients suffering from disorders such as Creutzfeldt-Jacob disease as taught by Richardson to also treat patients with the neurodegenerative diseases set forth by Gordon including Creutzfeldt-Jakob disease (mentioned by Richardson) as well as scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome. The motivation is that all of these neurodegenerative diseases are characterized by the appearance and accumulation of a protein-resistant form of a prion protein in the central nervous system and it is reasonable to treat diseases that have similar characteristics with similar forms of treatment.

#### Conclusion

Claims 1-9 and 13-19 are not allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAHAR JAVANMARD whose telephone number is (571) 270-3280. The examiner can normally be reached on 8 AM-5 PM MON-FRI (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFREY STUCKER can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

JEFFREY STUCKER
SUPERVISORY PATENT EXAMINER